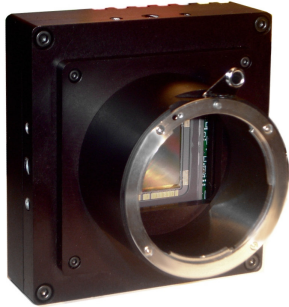




SI-14000 (14 MP, 35mm Film Resolution, F-Mount Camera)



- 3048 x 4560 Resolution
- 8.0 μ m x 8.0 μ m square pixel
- 65dB Optical Dynamic Range
- 35mm Film Format, Nikon F (36mmx24mm focal plan array)
- 12 bits x 4 ADC, 10~60MHz Sampling
- Full Resolution Capture at 4 fps (80 Mpix/sec)
- Monochrome & Color Bayer RGB Models
- 5VDC Low Power, Small Package
- F-Mount Precision Housing or PCB version
- PCB Inspection, Film Scanning, Biometrics, Metrology
- Cameralink (CL) & GigE Remote (GR) Models
- programmable windowing and sub-sampling modes.
- Electronic rolling shutter.
- On-chip fixed pattern noise correction.
- Effective conversion gain 18.5 μ V/e
- Spectral response * fill factor 0.22 A/W (peak)
- Peak Q.E. * fill factor 40% (Between 500 and 700 nm)

- Full Well charge *64865 electrons*
- Linear range *90 % of full well charge*
- Linearity definition: *< 3% deviation from straight line through zero point.*
- Temporal noise (kTC noise limited) *35 electrons*
- Dynamic range *1871:1 (65.4 Db)*
- Linear dynamic range *1688:1 (64.5 dB, . 3% deviation.)*
- Average dark current *55 pA/cm²* Average value At 24 °C lab temperature.
- Dark current signal *223 electrons/s* Average value At 24 °C lab temperature.
- MTF at Nyquist *0.55 in X 0.57 in Y* (Measured at 600 nm)
- Fixed pattern noise (local) *0.11 % V_{sat} RMS* (Average value of RMS variation on local 32 x 32 pixel windows.)
- Fixed pattern noise (global) *0.15% V_{sat} RMS*
- PRNU *<1% RMS of signal*
- Anti-blooming= *10⁵* (Charge spill-over to neighboring pixel=CCD blooming mechanism)

SI-14000 RESPONSE CURVE

